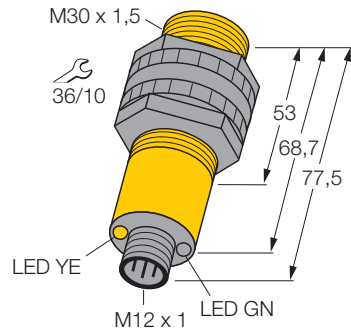


# photoelectric sensor

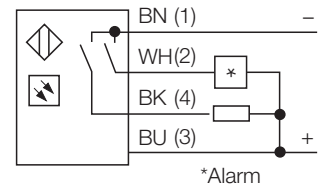
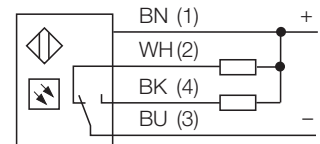
## retro-reflective sensor with polarisation filter

### S30SN6LPQ



- M12 x 1 connector
- degree of protection IP68 - IP69K
- Operating voltage 10...0 VDC
- npn switching output
- degree of protection IP69K

#### Wiring diagram

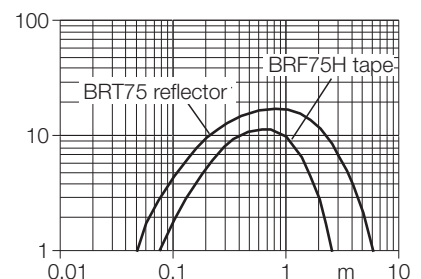


#### Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device.

#### Excess gain curve

Excess gain in relation to the distance



|                              |                                                  |
|------------------------------|--------------------------------------------------|
| <b>Type</b>                  | S30SN6LPQ                                        |
| Ident-No.                    | 3033372                                          |
| <b>Operating mode</b>        | retro-reflective sensor with polarisation filter |
| Light type                   | red                                              |
| Wavelength                   | 680 nm                                           |
| Range                        | 50... 6000 mm                                    |
| Ambient temperature          | -40...+ 70°C                                     |
| <b>Operating voltage</b>     | 10... 30 VDC                                     |
| DC rated operational current | ≤ 150 mA                                         |
| No-load current $I_0$        | ≤ 30 mA                                          |
| Output function              | connection programmable, NPN                     |
| Switching frequency          | ≤ 160Hz                                          |
| Readiness delay              | ≤ 100 ms                                         |
| Overcurrent release          | >220 mA                                          |
| <b>Housing</b>               | cylindrical/threaded, S30                        |
| Dimensions                   | 77.5mm                                           |
| Housing diameter             | Ø 30mm                                           |
| Housing material             | Plastic, PBT                                     |
| Lens                         | plastic, acrylic                                 |
| Electrical connection        | Connectors, M12 x 1                              |
| Protection class             | IP68 / IP69K                                     |
| <b>Operating voltage</b>     | LED green                                        |
| Switching state              | LED yellow                                       |
| Error indication             | LED green flashing                               |
| Alarm display                | LED yellow flashing                              |